

# Thermo Scientific Orion Star A214

Advanced pH/ISE benchtop meter

The Thermo Scientific™ Orion™ Star A214 pH/ISE Benchtop Meter works for any lab or application. Its durability and dependability make it ideal for every sample, every day.



The Thermo Scientific Orion Star A214 pH/ISE Benchtop Meter is the ideal choice for any lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows pH/mV/RmV/ISE and temperature with electrode status, time, date, sample ID, user ID and calibration points.

## Features and Benefits

- Easy meter operation assured with on-screen text prompts, menu-specific function keys and a multi-language interface
- Don't miss a reading—AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values
- Up to 5 point ISE calibration with optional non-linear auto-blank and low-concentration stability
- Calibration editing to fix individual points without a full recalibration
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary Orion Star Com computer software
- Stir samples with ease using the meter-controlled Orion Star stirrer probe
- Included electrode arm and holder make it easier to maintain probes
- Power the meter using the universal power adapter or four AA batteries
- IP54-rated housing handles splashes and is wall-mountable to save space
- 3 year meter replacement warranty



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## Thermo Scientific Orion A214 pH/ISE Benchtop Meter

Specifications	
<b>pH</b>	<b>Range:</b> -2.000 to 20.000 <b>Resolution:</b> 0.1, 0.01, 0.001 <b>Relative Accuracy:</b> ±0.002 <b>Calibration Points:</b> Up to 5 <b>Calibration Editing:</b> Yes
<b>mV/RmV</b>	<b>Range:</b> ±2000.0 mV <b>Resolution:</b> 0.1 mV <b>Relative Accuracy:</b> ±0.2 mV or ±0.05 % of reading whichever is greater <b>E<sub>H</sub> ORP Mode:</b> Yes
<b>ISE</b>	<b>Range:</b> 0.0001 to 19900 <b>Resolution:</b> 0.0001 minimum, auto ranging, up to 3 significant digits (user selectable) <b>Relative Accuracy:</b> ±0.2 mV or ±0.05 % of reading whichever is greater <b>Units:</b> ppm, M, mg/L, %, ppb, none <b>Calibration Points:</b> Up to 5 <b>Calibration Editing:</b> Yes <b>Calibration Features:</b> Linear point to point, non-linear selectable auto-blank, low concentration range stability
<b>Temperature</b>	<b>Range:</b> -5 to 105 °C, 23 to 221 °F <b>Resolution:</b> 0.1 °C, 0.1 °F <b>Relative Accuracy:</b> ±0.1 °C, ±0.1 °F <b>Offset Calibration:</b> 1 point
<b>Datalogging</b>	<b>Memory:</b> 2000 with time and date stamp <b>Log Function:</b> Manual, ready (includes AUTO-READ), timed
<b>Inputs</b>	<b>pH Electrode or ISE:</b> BNC, reference pin <b>ATC Probe:</b> 8-pin mini-DIN
<b>Output</b>	RS232, USB
<b>Power</b>	<b>AC Adapter:</b> Included—universal, 100-240 VAC <b>Battery Power:</b> Optional—4 AAs <b>Battery Life:</b> 800 hrs

Meter Ordering Information	
<b>Part No.</b>	<b>Description</b>
<b>STARA2140</b>	<b>Orion Star A214 pH/ISE Benchtop Meter*</b>
<b>STARA2145</b>	<b>Orion Star A214 pH/ISE Benchtop Meter Kit*</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 927007MD Orion stainless steel ATC probe - 096019 Orion Star stirrer probe - 810199 ROSS pH buffer & solution kit
<b>STARA2146</b>	<b>Orion Star A214 pH/ISE Benchtop Meter Kit for Ammonia*</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 9512HPBNWP Orion high-performance ammonia ISE - 927007MD Orion stainless steel ATC probe - 096019 Orion Star stirrer probe - 951007 Ammonia 1000 ppm standard - 951210 Low-level ammonia ISA - 951213 Ammonia ISE storage solution
<b>STARA2147</b>	<b>Orion Star A214 pH/ISE Benchtop Meter Kit for Fluoride*</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 9609BNWP Orion fluoride ISE - 927007MD Orion stainless steel ATC probe - 096019 Orion Star stirrer probe - 040906, 040907 & 040908 Orion fluoride standards; 1 ppm, 2 ppm & 10 ppm with TISAB II - 940909 Orion TISAB II solution, 1 gallon
<b>STARA2148</b>	<b>Orion Star A214 pH/ISE Benchtop Meter Kit for Sodium*</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 8611BNWP Orion ROSS sodium ISE and sodium solutions - 927007MD Orion stainless steel ATC probe - 096019 Orion Star stirrer probe <b>* All the above configurations come with:</b> - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable

Accessories Ordering Information	
<b>Part No.</b>	<b>Description</b>
<b>810199</b>	Orion ROSS All-in-One pH buffer kit
<b>951007</b>	Ammonia standard, 1000 ppm, 475 mL
<b>951210</b>	Low-level ammonia ISA, 475 mL
<b>951211</b>	Ammonia ISA, 475 mL
<b>040906</b>	Fluoride standard, 1 ppm with TISAB II, 475 mL
<b>040907</b>	Fluoride standard, 2 ppm with TISAB II, 475 mL
<b>040908</b>	Fluoride standard, 10 ppm with TISAB II, 475 mL
<b>940909</b>	TISAB II, 1 gallon

For more information, contact your local Thermo Scientific products dealer or call our customer and technical service experts at 1-800-225-1480 (for the US and Canada) or visit [www.thermoscientific.com/water](http://www.thermoscientific.com/water).



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